



Department of Energy

Idaho Operations Office
850 Energy Drive
Idaho Falls, Idaho 83401-1563

July 9, 2001

Mr. Wayne Pierre, Team Leader
Environmental Cleanup Office
U.S. Environmental Protection Agency
Region X
1200 Sixth Avenue
Seattle, Washington 98101

Mr. Dean Nygard, Site Remediation Program Manager
Idaho Department of Environmental Quality
Waste Management and Remediation Program
1410 N. Hilton
Boise, Idaho 83706

SUBJECT: Transmittal of the Final ICDF 30% Design Package - (EM-ER-01-117)

Dear Mr. Pierre and Mr. Nygard:

Enclosed is the Final *INEEL CERCLA Disposal Facility (ICDF) 30% Design Package*.

Contained in this design package are the engineering calculations, specifications, drawings along with the necessary plans (construction quality assurance, waste management, etc.) for the design and construction of the ICDF landfill and evaporation ponds. The level of detail is at the Title I (30%) stage in design. These design packages are for a landfill with a volume of 510,000 yds³. The Remedial Design/Remedial Action Work Plan (RD/RA WP) will be based on the information contained in enclosed Title I design package for development of the Title II (90%) design.

The enclosed design package (contents listed below) is being submitted to meet the requirements of the Federal Facility Agreement and Consent Order (FFA/CO).

ICDF — 30% Design Package

Volume 1

- INEEL CERCLA Disposal Facility - Master Table of Documents (Draft Title I), DOE/ID-10847
- INEEL CERCLA Disposal Facility Remedial Design/Remedial Action (RD/RA) Work Plan/Title II Design — Annotated Outline, DOE/ID-10848
- INEEL CERCLA Disposal Facility Construction Quality Assurance Plan for the INEEL CERCLA Disposal Facility — Annotated Outline, DOE/ID-10851
- INEEL CERCLA Disposal Facility Complex Landfill and Evaporation Pond Operations and Maintenance Plan — Annotated Outline, DOE/ID-10852
- Draft Technical Specifications for the INEEL CERCLA Disposal Facility, SPC-1476

Volume 2

- INEEL CERCLA Disposal Facility Design Inventory, EDF-ER-264
- Hydrologic Modeling of Final Cover, EDF-ER-279
- Leachate/Contaminant Reduction Time Study, EDF-ER-274
- Fate and Transport Modeling Results and Summary Report, EDF-ER-275
- Permeable Reactive Barrier Decision Analysis, EDF-ER-273
- Modifications to the Monitoring System and Installation Plan for Operable Unit 3-13, Group 5, Snake River Plain Aquifer, DOE/ID-10783
- Modifications to Long Term Monitoring Plan for Operable Unit 3-13, Group 5, Snake River Plain Aquifer, DOE/ID-10783

Volume 3

- Evaluation of Geotechnical Investigations Required to Complete Design & Construction, EDF-ER-276
- Seismic Evaluation of Landfill and Evaporation Pond, EDF-ER-282
- Slope Stability Assessments, ER-EDF-268
- Subsurface Consolidation Calculations, EDF-ER-266
- Landfill Compaction/Subsidence Study, EDF-ER-267
- Waste-Soil Design Ratio Calculations, EDF-ER-277
- Waste Placement Plan, EDF-ER-286
- Liner and Final Cover Long Term Performance Evaluation and Final Cover Life Cycle Expectation, EDF-ER-281
- Leachate Generation Study, EDF-ER-269
- Landfill Leachate Collection System Design Analysis, EDF-ER-280
- Liner/Leachate Compatibility Study, EDF-ER-278
- Evaporation Pond Sizing with Water Balance and Make-up Water Calculations, EDF-ER-271

Volume 4

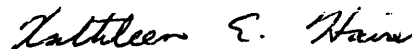
- Waste Acceptance Criteria for ICDF Landfill, DOE/ID-10865
- Waste Acceptance Criteria for ICDF Evaporation Pond, DOE/ID-10866

Volume 5

- INEEL CERCLA Disposal Facility – Drawings (Draft Title I)

Comments received from the EPA and IDHW on the Draft ICDF Title I Design Package have been addressed and incorporated. The comments along with the responses are also included with this Final ICDF Title I Design Package. If you have any questions, please call Talley Jenkins at (208) 526-4978 or myself at (208) 526-4392.

Sincerely,



Kathleen Hain, Manager
Environmental Restoration Program

Enclosure

Pierre, Nygard

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RECORD NOTES:

1. This letter was prepared to transmit Final ICDF Title I Design Package to the State and EPA. This design package is the information and design ICDF landfill and evaporation ponds at the Title I stage of design along with annotated outlines for some of the documents that will be developed for the RD/RA WP.
2. This letter was prepared based on discussions between T. Jenkins and K. Hain (EM/ER).
3. This letter/memo closes OATS number N/A.
4. The attached correspondence has no relation to the Naval Nuclear Propulsion Program. Naval Reactors concurrence is not required.